

Title: Calculating Crustaceans

Link to Outcomes:

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|---------------------------------------|---|
| ● Connections | Students will be able to connect mathematics to a real-life scientific situation. |
| ● Estimation | Students will be able to explore estimation strategies. |
| ● Measurement | Students will be able to apply measurement to interdisciplinary real-world problem solving situations. |
| ● Whole Number Computation | Students will be able to add and subtract with regrouping (more than two addends). |
| ● Statistics & Probability | Students will be able to collect, organize and display data for given situations using appropriate displays such as bar graphs, pictographs and glyphs. |

Brief Overview:

This is a whole language unit. The children will be introduced to crustaceans progressing from a fictional to a real-life situation. The students will be measuring, predicting, estimating, sorting, classifying, and writing creative time-order paragraphs.

Grade/Level:

Grade 3

Duration/Length:

Five 45-minute periods

Prerequisite Knowledge:

- Ability to sort and classify
- Ability to label drawings
- Ability to write time order paragraphs.

Objectives:

Students will be able to:

- extend their understanding of measurement through community resources.
- define crustacean terminology.
- estimate lengths of different objects using a crab pattern as a unit of measurement.
- sort and classify crabs according to length (point to point).
- predict probability of one crab size being pulled from bag the most number of times.
- label a diagram of a crab.
- write a time order paragraph.

Materials/Resources/Printed Materials:

- *Chadwick the Crab* by Priscilla Cummings
- Guest lecturer
- Crab patterns (one for each student)
- Gameboard with die
- Probability bag
- Paper
- Crayons
- Markers
- Boxes

Development/Procedures:

Day 1:

- Read Chadwick the Crab aloud.
- Compare and contrast Chadwick and a real crustacean.
- Generate crab terminology from prior knowledge.
- Assign vocabulary homework sheet.

Day 2:

- Share vocabulary definitions from homework assignment.
- Distribute crab patterns and work in cooperative groups to measure objects.

Day 3:

- Visitation from guest lecturer to explain how crabs are measured, sorted, and packaged for shipment to market. The lecturer will be a local waterman.
- Make a pictograph, graphing by length (point to point).

Day 4:

- Regroup boxes and crabs for shipping using mats.
- Play “Travel” with crab facts.
- Guess probability of a certain size of crab being pulled from bag.

Day 5:

- Visit a local crab packing company.
- Label the parts of a crab.
- Write a time-order paragraph about a crab being processed.

Evaluation:

- Check student labeling worksheet.
- Writing activity--Check for adherence to writing standards which includes form, audience, topic, and purpose.

Extension/Follow Up:

- Initiate student webbing worksheet.

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Word Search

B	Y	M	M	I	J	M	P	R
U	U	S	O	O	O	E	A	E
C	W	S	A	L	E	K	P	L
K	A	A	T	L	T	O	R	B
R	L	G	E	E	Q	O	O	U
A	C	R	R	Z	R	S	N	O
M	A	D	B	C	O	L	P	D
L	L	E	H	S	T	F	O	S

Word List:

buckram
buster
doubler
molt
peeler
sook
jimmy
soft-shell
claw
apron

How many whales in a box of soft crabs?	How many jumbos in a box of soft crabs?
How many primes in a box of soft crabs?	How many hotels in a box of soft crabs?
How many mediums in a box of soft crabs?	What is a buster?
What is a buckram?	What is a jimmy?
What is the size of a <i>whale</i> soft crab?	What is the size of a <i>jumbo</i> soft crab?
What is the size of a <i>prime</i> soft crab?	What is the size of a <i>hotel</i> soft crab?
What is the size of a medium soft crab?	What is a green crab?
What is a shanty?	How do crabbers catch the soft crabs?
How many whales are in a packing box?	How many jumbos are in a packing box?
How many primes are in a packing box?	What is the largest soft crab called?
How many hotels are in a packing box?	How many mediums are put in a packing box?
What is the smallest soft crab called?	What soft crab is larger-- jumbo or prime?
What crustacean was Chadwick?	Where did Chadwick live?

What packing company did we visit?	When is the crabbing season??
How many crabs in three dozen?	What is a peeler?
What is molting?	What color are cooked crabs?
What color are female eggs?	What is the shape of a male crab's apron?
What is the shape of a female crab's apron?	What color is the meat in the claw of a cooked crab?
What is the pot called that you cook crabs in?	



JUMBO PATTERN

CRAB KEY

WHALE = _____ inches

JUMBO = _____ inches

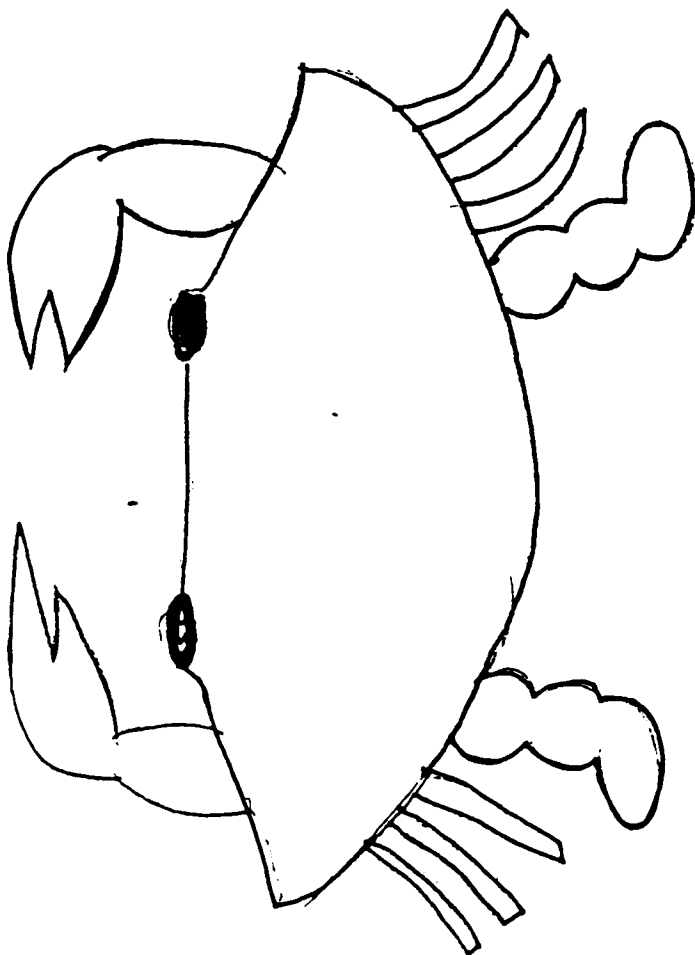
PRIME = _____ inches

HOTEL = _____ inches

MEDIUM = _____ inches

GROUP _____

DATE _____

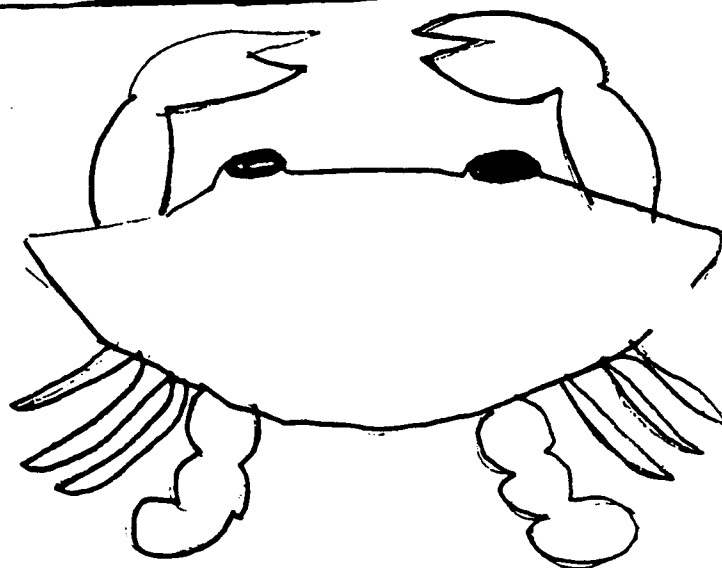


PRIME PATTERN

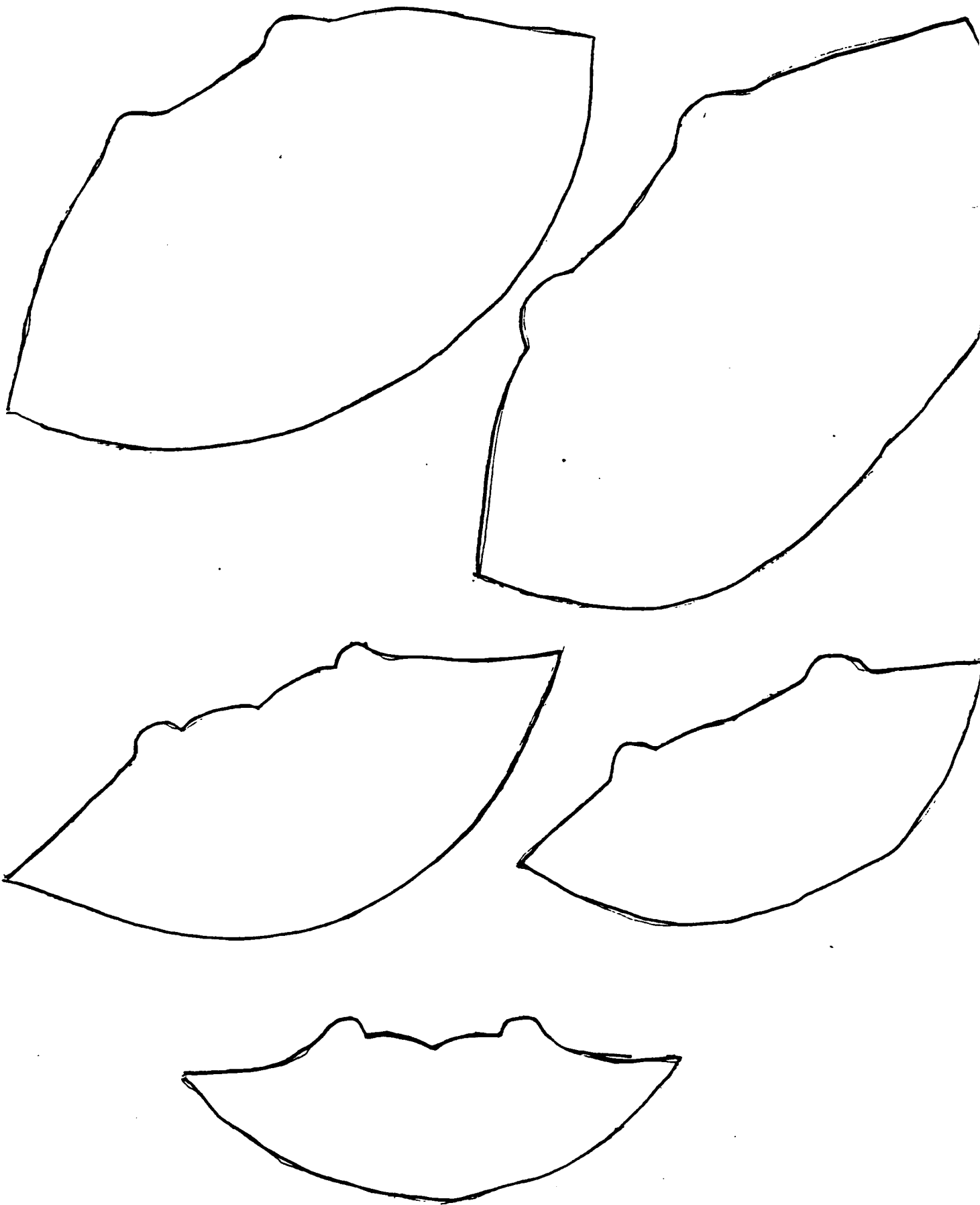


WHALE PATTERN

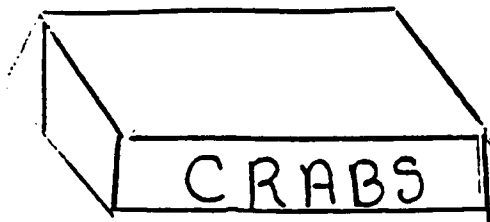
HOTEL PATTERN

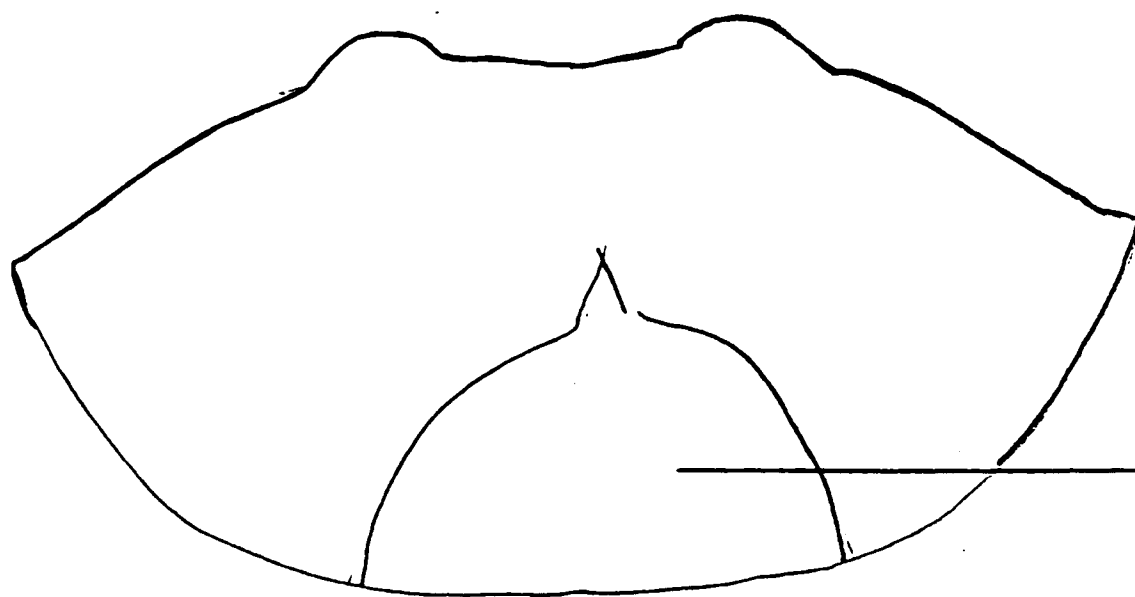


MEDIUM PATTERN



CRAB PATTERNS





LABEL THE CRAB

CRAB FACTS

